

(19) World Intellectual Property Organization  
International Bureau



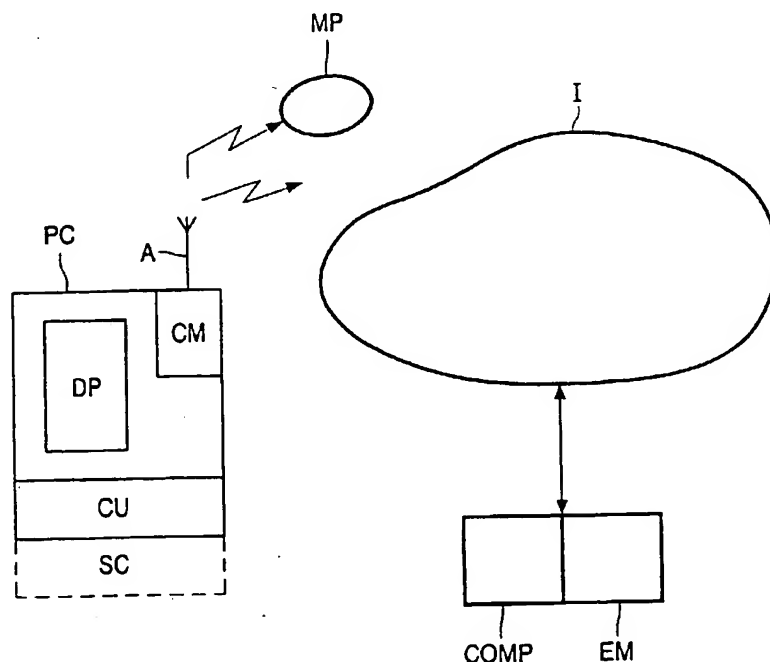
(43) International Publication Date  
25 October 2001 (25.10.2001)

PCT

(10) International Publication Number  
**WO 01/79973 A2**

- (51) International Patent Classification<sup>7</sup>: **G06F 1/16**
- (21) International Application Number: **PCT/EP01/03946**
- (22) International Filing Date: **6 April 2001 (06.04.2001)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:  
00201373.8 **18 April 2000 (18.04.2000) EP**
- (71) Applicant: **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventor: **DUNIAS, Paraskevas**; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (74) Agent: **SCHOENMAKER, Maarten**; Internationaal Octrooibureau B.V., Prof Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (81) Designated States (*national*): **CN, JP, KR.**
- (84) Designated States (*regional*): **European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).**
- Published:**  
— *without international search report and to be republished upon receipt of that report*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **MOBILE INTERNET**



(57) Abstract: Portable computers are known in the art and are used to make working at different places possible. To improve the possibilities to use a portable computer wherever the user is the invention propose a portable computer having means to couple the computer to the internet via a mobile telephone connection. In this way it is made possible to use the portable computer wherever the user is without the need to connect the portable computer to the central computing network or via cables to a telephone network.

Mobile Internet.

The invention relates to a portable computer as described in the preamble of claim 1.

Portable computers are known in the art and are more and more used by all  
5 kind of peoples who are no longer working on one place but are in stead besides working in  
an office also working at home, or when abroad in a hotel etc..

A disadvantage of this known portable computer is that this portable computer  
has to be connected to either a central computing system or via a cable to the telephone  
10 warriors.

An object of the invention is to provide a portable computer, which has not the  
disadvantages of the prior art portable computers. To this end a portable computer according  
to the invention comprises the features of claim 1.

15 In this way it is possible to use the portable computer as a separate unit  
without needing to couple this portable computer to either a central computer network or with  
cables to the telephone network. A further advantage of this portable computer is that now it  
is made possible to really work on the place the user wants to work not needing to connect  
the computer via cables etc. he now is really in the position to work for example in the train,  
20 a car, at home, in the garden, etc..

It to be noticed here that the not pre-published American patent application no. 09/427821  
describes a remote control which can be used regardless of the distance between the  
equipment to be controlled and the user.

25

Embodiments of the invention are described in the dependent claims.

The invention and additional features which may optionally be used to implement the invention to advantage will be apparent from and elucidated with reference to the examples described below and hereinafter and shown in the figure. Herein shows:

The figure a schematic embodiment of a portable computer according to the invention.

The figure shows schematically an example of a portable computer PC according to the invention comprising a calculation unit CU, a display DP and coupling means CM having an antenna A. The portable computer PC can be coupled to the internet I via a mobile telephone connection and can be coupled to other computers COMP and communicate via email EM.

The portable computer PC can also be used as a mobile phone via de coupling means CM and the antenna A to a mobile phone network MP. The mobile phone network MP and the internet I as shown as two separate elements in the figure can also be coupled into one net.

The portable computer PC can also have battery means coupled to solar cells SC to make the portable computer independent from charging the batteries.

As the portable computer will be used to be coupled to the internet via an internet browser to an internet provider the portable computer can be made for example as small as an A4-paper and only a few centimeters fig..

To improve the ease of use it is for example possible that the portable computer automatically connects to the internet and automatically starts the internet browser. In this way the user can start immediately without knowing anything about starting an internet browser making a connection installation etc..

Further by making the portable computer as small as an A4-paper it is easy for the user to carry the portable computer with him wherever he goes and use this portable computer at each place he likes to use the portable computer.

It will be noticed that above the portable computer according to the invention has been described as an example and that the portable computer can be amended without departing from the main idea of the invention.

- 5           By combining the portable computer with the mobile phone it is really made possible to use the portable computer wherever the user is in stead of the portable computers as are available until now where it is necessary to connect the portable computer to either a central computing network or with cables to a telephone network, etc..

## CLAIMS:

1. A portable computer comprising a calculation unit and a display, characterized in that the portable computer comprises means to couple the computer to the internet via a mobile telephone connection.

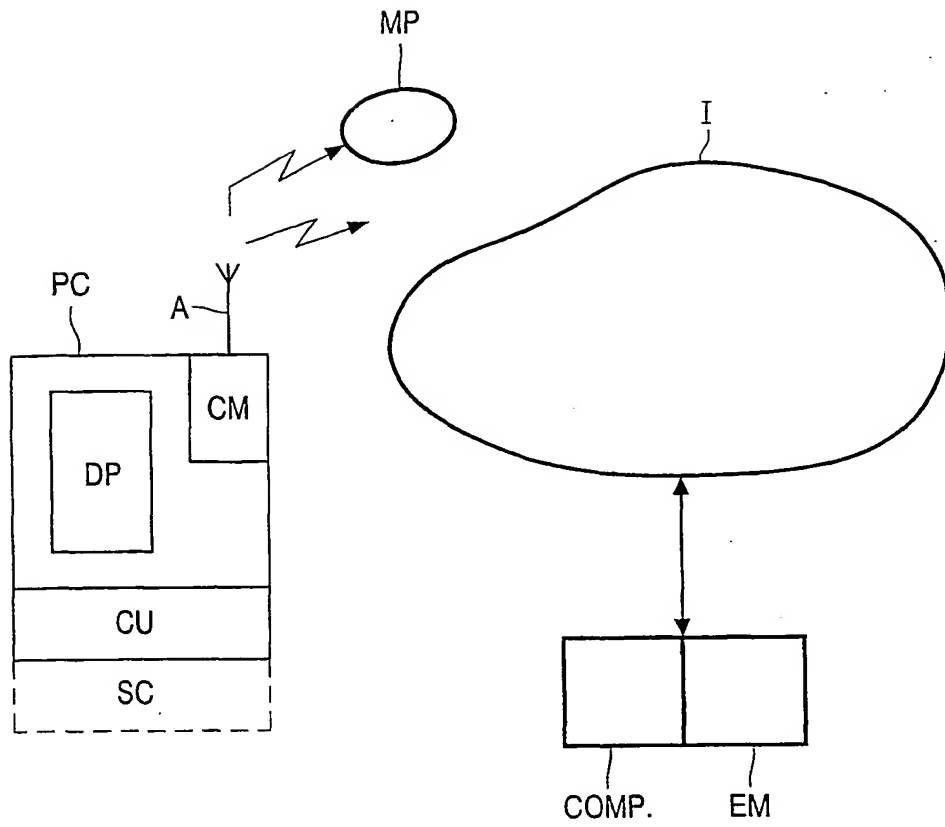
5 2. A portable computer as claimed in claim 1, characterized in that the portable computer comprises a modem.

3. A portable computer as claimed in claim 1, characterized in that the portable computer comprises a battery means coupled to solar cells.

10

4. A portable computer as claimed in claim 1, characterized in that the portable computer comprises means to use to portable computer as a mobile phone.

1/1



(19) World Intellectual Property Organization  
International Bureau



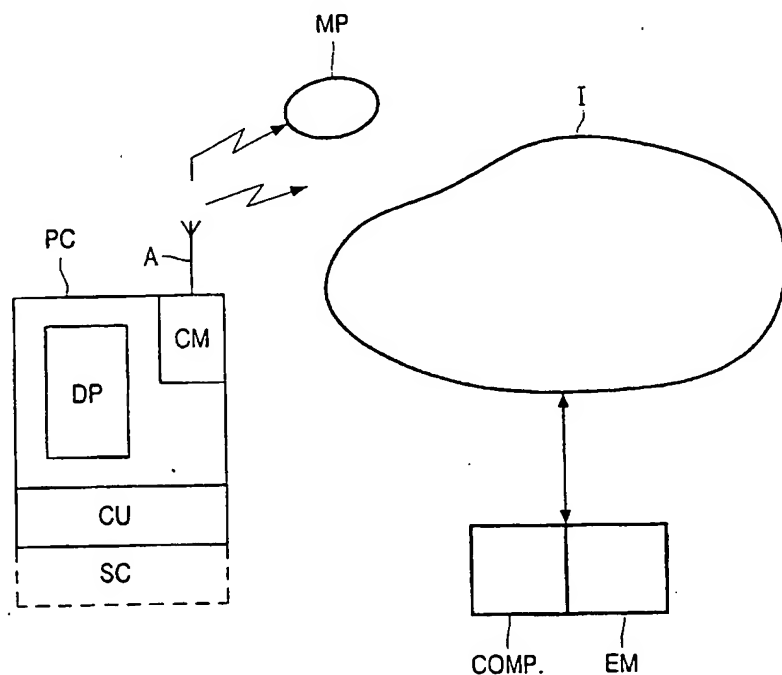
(43) International Publication Date  
25 October 2001 (25.10.2001)

PCT

(10) International Publication Number  
**WO 01/79973 A3**

- (51) International Patent Classification: G06F 1/16 (74) Agent: SCHOENMAKER, Maarten; Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (21) International Application Number: PCT/EP01/03946
- (22) International Filing Date: 6 April 2001 (06.04.2001) (81) Designated States (national): CN, JP, KR.
- (25) Filing Language: English (84) Designated States (regional): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).
- (26) Publication Language: English
- (30) Priority Data: 00201373.8 18 April 2000 (18.04.2000) EP Published: — with international search report
- (71) Applicant: KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). (88) Date of publication of the international search report: 7 February 2002
- (72) Inventor: DUNIAS, Paraskevas; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MOBILE INTERNET



(57) Abstract: Portable computers are known in the art and are used to make working at different places possible. To improve the possibilities to use a portable computer wherever the user is the invention propose a portable computer having means to couple the computer to the internet via a mobile telephone connection. In this way it is made possible to use the portable computer wherever the user is without the need to connect the portable computer to the central computing network or via cables to a telephone network.

WO 01/79973 A3

# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 01/03946

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G06F1/16

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 298 00 351 U (RINDLE & PARTNER GMBH) 5 March 1998 (1998-03-05) claims 5,6	1-4
X	GB 2 289 555 A (NOKIA MOBILE PHONES LTD) 22 November 1995 (1995-11-22) abstract page 5, line 20 -page 6, line 11; figures 1-3,6 page 9, line 25 -page 10, line 7 page 13, line 2 - line 4 page 13, line 19 - line 28 page 14, line 6 - line 9 -/--	1-4



Further documents are listed in the continuation of box C



Patent family members are listed in annex.

\* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\* & \* document member of the same patent family

Date of the actual completion of the international search

18 October 2001

Date of mailing of the international search report

25/10/2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, fx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Bravo, P



## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 01/03946

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 91 04461 A (INTELLIGENCE TECHNOLOGY CORP) 4 April 1991 (1991-04-04) abstract page 5, line 25 -page 6, line 10; figures 5,6 ---	1-4
X	US 5 907 815 A (WATTS JR LAVAUGHN F ET AL) 25 May 1999 (1999-05-25) abstract column 12, line 36 -column 13, line 14; figures 7-12 ---	1-4
X	US 5 701 515 A (GRADELER ERIC J) 23 December 1997 (1997-12-23) abstract column 1, line 56 -column 2, line 35; figures 1,2 column 2, line 61 -column 3, line 33; figure 3 ---	1-4
A	US 5 748 441 A (LORITZ AXEL ET AL) 5 May 1998 (1998-05-05) , sentence A column 3, line 14 -column 4, line 2; figure 1 ---	3
A	US 5 886 688 A (FIFIELD DAVID ET AL) 23 March 1999 (1999-03-23) abstract column 2, line 26 - line 61; figure 1 ---	3
A	DE 296 14 330 U (SAMLAND THOMAS DIPL MATH) 5 December 1996 (1996-12-05) the whole document -----	3

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/EP 01/03946

Patent document, cited in search report		Publication date	Patent family member(s)	Publication date
DE 29800351	U	05-03-1998	DE 29800351 U1	05-03-1998
GB 2289555	A	22-11-1995	FI 942334 A	20-11-1995
WO 9104461	A	04-04-1991	WO 9104461 A1	04-04-1991
			EP 0444052 A1	04-09-1991
			JP 4503436 T	18-06-1992
			KR 185726 B1	15-05-1999
US 5907815	A	25-05-1999	NONE	
US 5701515	A	23-12-1997	NONE	
US 5748441	A	05-05-1998	DE 29510170 U1	30-11-1995
			EP 0750245 A1	27-12-1996
US 5886688	A	23-03-1999	NONE	
DE 29614330	U	05-12-1996	DE 29614330 U1	05-12-1996